



Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Receptacle**

PCB Mount Orientation: **Vertical**

Connector System: **Board-to-Board**

Number of Positions: **50**

Number of Rows: **2**

Features

Product Type Features

PCB Connector Type	PCB Mount Receptacle
Connector System	Board-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Board-to-Board Configuration	Parallel
Stackable	No
PCB Mount Orientation	Vertical
Number of Positions	50
Number of Rows	2

Electrical Characteristics

Operating Voltage	30 VAC
Insulation Resistance	5000 MΩ

Body Features

PCB Retention Feature Material	Copper Alloy
PCB Retention Feature Plating Material	Tin-Lead over Nickel
Primary Product Color	Black



Contact Features

	150 µin
Contact Mating Area Plating Material Thickness	.762 µm[30 µin]
Mating Square Post Dimension	.38 mm[.015 in]
Contact Base Material	Phosphor Bronze
PCB Contact Termination Area Plating Material	Tin-Lead
Contact Mating Area Plating Material	Gold (Au)
Contact Type	Socket
Contact Current Rating (Max)	3.6 A

Termination Features

Rectangular Termination Post & Tail Width	.38 mm[.015 in]
Rectangular Termination Post & Tail Thickness	3.6 mm[.008 in]
Termination Method to PCB	Surface Mount

Mechanical Attachment

PCB Mount Retention Type	Hold-Down Post
PCB Mount Retention	With
PCB Mount Alignment	Without
Connector Mounting Type	Board Mount
Mating Alignment	Without

Housing Features

Housing Material	Thermoplastic
Centerline (Pitch)	1.27 mm[.05 in]

Dimensions

Row-to-Row Spacing	2.54 mm[.1 in]
PCB Thickness (Recommended)	1.57 mm[.062 in]
Connector Height	9.4 mm[.37 in]
Connector Length	9.4 mm[.37 in]

Usage Conditions

Operating Temperature Range	-65 – 105 °C[-85 – 221 °F]
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Operation/Application

Solder Process Feature	Board Standoff
Circuit Application	Signal



Industry Standards

Compatible With Approved Standards Products	CSA LR7189, UL E28476
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Reel Diameter	13 mm
Packaging Quantity	13
Packaging Method	Box, Tube

Product Compliance

For compliance documentation, visit the product page on TE.com>

EU RoHS Directive 2011/65/EU	Not Compliant
EU ELV Directive 2000/53/EC	Compliant with Exemptions
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) SVHC > Threshold: Pb (13% in 4690971273) Article Safe Usage Statements: Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Reflow solder capable to 260°C

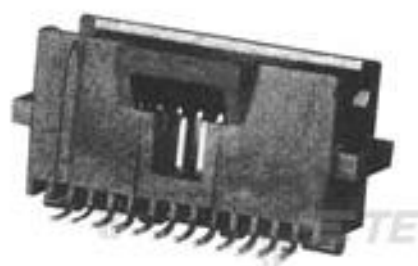
Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

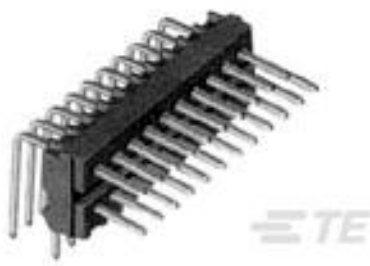
Compatible Parts



TE Part # 147380-1
50 SYS 50 HDR DRST SHRD W/O HD



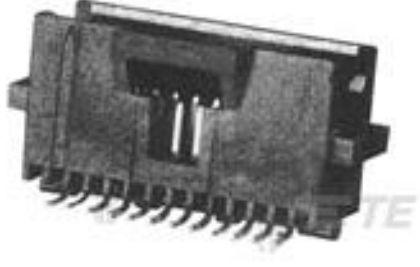
TE Part # 104549-7
50 SYS50 SURFMNT HDR DRST SHRD



TE Part # 104118-1
50 SYSTEM 50 HDR DRRA UNSHRD



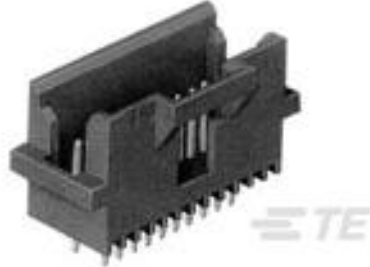
TE Part # 104068-5
50 SYSTEM 50 HDR DRST SHRD



TE Part # 147377-5
50 SYS50 SMT HDR DR SHD W/O HD



TE Part # 1-103916-3
50 SYSTEM 50 HDR DRST UNSHRD



TE Part # 104666-4
50 SYSTEM 50 HDR DRST SHRD



TE Part # 104477-5
50 SYSTEM 50 HDR DRRA SHRD

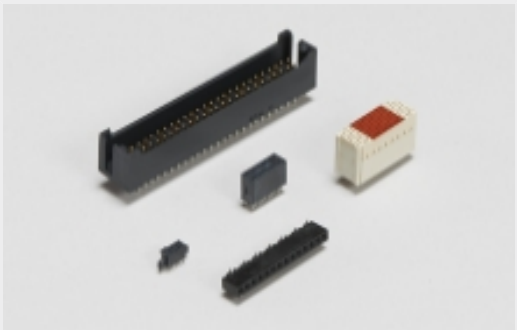


TE Part # 104068-4
40 SYSTEM 50 HDR DRST SHRD

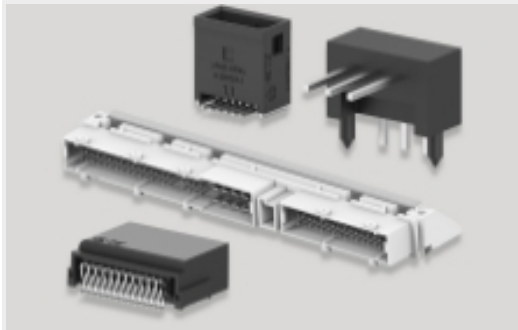


TE Part # 104069-2
50 SYSTEM 50 HDR DRRA SHRD

Also in the Series | AMPMODU System 50



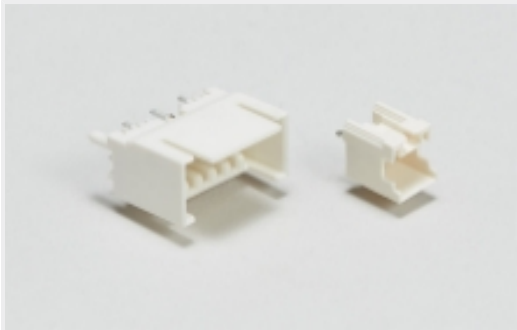
Board-to-Board Headers & Receptacles(685)



PCB Headers & Receptacles(685)



Rectangular Power Connectors(47)



Wire-to-Board Headers & Receptacles (47)

Customers Also Bought



TE Part #11026199-00
44031RC,THERM,ROHS



TE Part #38943-22L
CONT SOC ASSY



TE Part #5-104550-6
50 SYS50 SURFMNT DRST RCPT SN



Documents

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_104550-6_S.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_104550-6_S.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_104550-6_S.3d_stp.zip

English

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Product Specifications

Application Specification

English